What is claimed is:

1.   1.   A communication apparatus, comprising:

2.   a channel estimator to estimate channel parameters for a communication
3. channel based on a signal received from the communication channel; and

4.   a quality measure target generator to generate a quality measure target value for
5. the communication apparatus using channel parameters estimated by said channel
6. estimator, said quality measure target value representing a desired value for a quality
7. measure associated with the communication apparatus.

1.   2.   The communication apparatus of claim 1, wherein:

2.   said quality measure target generator generates a signal to interference ratio
3. (SIR) target value.

1.   3.   The communication apparatus of claim 1, wherein:

2.   said quality measure target generator includes a quality measure target estimator
3. to determine an estimated quality measure target value using channel parameters
4. estimated by said channel estimator and a quality measure target correction unit to
5. correct said estimated quality measure target value based on performance information.

1.   4.   The communication apparatus of claim 3, wherein:

2.   said performance information includes block error rate (BLER) information.

1.   5.   The communication apparatus of claim 1, wherein:

2.   said quality measure target generator generates said quality measure target value
3. using symbol energy variance information associated with the communication channel.

1.   6.   The communication apparatus of claim 1, comprising:

2.   a quality measure estimator to estimate an actual quality measure value for a
3. signal received from the communication channel.

1   7.   The communication apparatus of claim 6, comprising:

2   a message generator to generate a power control message based on the

3 estimated quality measure value and the quality measure target value.

1   8.   The communication apparatus of claim 1, wherein:

2   said communication apparatus is a handheld communicator.

1   9.   The communication apparatus of claim 1, wherein:

2   said communication apparatus is a base station transceiver.

1   10.   The communication apparatus of claim 1, wherein:

2   said communication apparatus is part of a code division multiple access

3 (CDMA) system.

1   11.   A method for generating a quality measure target value within a communication

2 apparatus, comprising:

3   estimating channel parameters for a communication channel based on a signal

4 received from the communication channel; and

5   calculating the quality measure target value using the estimated channel

6 parameters.

1   12.   The method of claim 11, wherein:

2   calculating the quality measure target value includes determining an estimated

3 quality measure target value using the estimated channel parameters.

1   13.   The method of claim 12, wherein:

2   calculating the quality measure target value further includes correcting the

3 estimated quality measure target value based on performance information associated

4 with the communication apparatus.

1 14. The method of claim 13, wherein:

2 said performance information includes block error rate (BLER) information.

1 15. The method of claim 11, wherein:

2 estimating channel parameters includes estimating at least one of the following:

3 the number of paths in the communication channel, the strengths of paths in the

4 communication channel, the relative velocity of the communication apparatus, the

5 fading rates of paths in the communication channel, symbol energy variances in the

6 communication channel, and variances between symbols of different blocks within the

7 communication channel.

1 16. The method of claim 11, wherein:

2 calculating the quality measure target value includes calculating a signal to

3 interference ratio (SIR) target.

1 17. A communication apparatus, comprising:

2 a channel estimator to estimate channel parameters for a communication

3 channel based on a signal received from the communication channel;

4 a performance estimator to estimate a performance parameter of the

5 communication apparatus; and

6 a quality measure target generator to generate a quality measure target value for

7 the communication apparatus, wherein said quality measure target generator generates

8 said quality measure target value using channel parameters estimated by said channel

9 estimator and the estimated performance parameter determined by said performance

10 estimator.

1 18. The communication apparatus of claim 17, wherein:

2 said performance estimator estimates a receive error rate of the communication

3 apparatus and said quality measure target generator uses said receive error rate to

4 generate the quality measure target value.

1   19.   The communication apparatus of claim 17, wherein:

2   said quality measure target generator uses the channel parameters to determine

3 an approximate quality measure target value and the estimated performance parameter

4 to correct the approximate quality measure target value.

1   20.   The communication apparatus of claim 17, wherein:

2   said channel estimator estimates at least one of the following: the number of

3 paths in the communication channel, the strengths of paths in the communication

4 channel, the relative velocity of the communication apparatus, the fading rates of paths

5 in the communication channel, symbol energy variances in the communication channel,

6 and variances between symbols of different blocks within the communication channel.

1   21.   The communication apparatus of claim 17, comprising:

2   a quality measure estimator to estimate a quality measure of the signal received

3 from the communication channel; and

4   a message generator to generate a power control message based on the

5 estimated quality measure and the quality measure target value.

1   22.   A mobile communicator, comprising:

2   a first quality measure target generator to generate a first quality measure target

3 value for a first remote base station using estimated channel parameters for a

4 communication channel between said mobile communicator and said first remote base

5 station;

6   a second quality measure target generator to generate a second quality measure

7 target value for a second remote base station using estimated channel parameters for a

8 communication channel between said mobile communicator and said second remote

9 base station; and

10   a site selection manager to select a remote base station to act as a servicing base

11 station for the mobile communicator using at least said first quality measure target

12 value and said second quality measure target value.

1 23.   The mobile communicator of claim 22, wherein:

2   said first and second quality measure target generators include SIR target

3 generators.

1 24.   The mobile communicator of claim 22, comprising:

2   at least one other quality measure target generator to generate at least one other

3 quality measure target value for at least one other remote base station, wherein said site

4 selection manager uses said at least one other quality measure target value to select said

5 remote base station to act as said servicing base station.

1 25.   The mobile communicator of claim 22, further comprising:

2   a message generator to generate a power control message for a remote base

3 station based on a corresponding quality measure target value.